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PATENT  
Customer No. 22,852  
Attorney Docket No. 9960.0007-09

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: )  
STICE et al. ) Group Art Unit: 1632  
Application No. 09/845,352 ) Examiner: D. Crouch  
Filed: May 1, 2001 ) Confirmation No.: 3443  
For: CLONED UNGULATE EMBRYOS AND ANIMALS, USE OF CELLS,  
TISSUES AND ORGANS FOR TRANSPLANTATION THERAPIES  
INCLUDING PARKINSON'S DISEASE

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

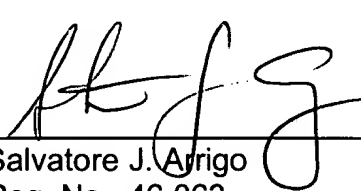
**TRANSMITTAL LETTER**

Applicants submit a Revocation of Power of Attorney and Grant of New Power of Attorney and associated papers in the above-identified application.

Kindly associate these papers with this application.

Respectfully Submitted,

Dated: November 30, 2006

By:   
Salvatore J. Arrigo  
Reg. No. 46,063  
Telephone: 202-408-4160  
Facsimile: 202-408-4400  
E-mail: arrigos@finnegan.com



PATENT  
Customer No. 22,852

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of: )  
Stice et al. ) Group Art Unit: 1632  
U.S. Application No. 09/066,652 ) Examiner: Crouch/Woitach  
U.S. Application No. 09/534,500 )  
U.S. Application No. 09/845,352 )  
U.S. Application No. 10/809,556 )  
U.S. Application No. 10/818,486 )

For: Cloned Ungulate Embryos and Animals, Use of Cells, Tissues and Organs for  
Transplantation Therapies Including Parkinson's Disease

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

**REVOCATION OF POWER OF ATTORNEY  
AND GRANT OF NEW POWER OF ATTORNEY**

The undersigned, a representative authorized to sign on behalf of the assignee owning all of the interest in the applications identified above, hereby revokes all previous powers of attorney or authorization of agent granted in the above-identified applications before the date of execution hereof.

The undersigned verifies that University of Massachusetts, as represented by its Amherst Campus, is the assignee of the entire right, title, and interest in the applications identified above by virtue of assignments recorded at Reel 9442, Frame 0149, and Reel 009442, Frame 0193 (copies attached). The undersigned certifies that the evidentiary documents have been reviewed and to the best of the undersigned's knowledge and

belief, title is in the assignee University of Massachusetts, as represented by its Amherst Campus.

The undersigned hereby grants its power of attorney to the patent practitioners associated with **FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, L.L.P., Customer Number 22,852**, to prosecute the above-identified applications and to transact all business in the Patent and Trademark Office connected therewith, and to receive the Letters Patent.

Please send all future correspondence concerning these applications to Finnegan, Henderson, Farabow, Garrett & Dunner, L.L.P., Customer No. 22,852.

Dated: 11-21-06

By:   
Name: Nicholas DeCristofaro

Title: Director, Commercial Ventures & Intellectual Property

University of Massachusetts,  
as represented by its Amherst Campus



UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office  
ASSISTANT SECRETARY AND COMMISSIONER  
OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231

JANUARY 06, 1999

PTAS

BURNS, DOANE, SWECKER & MATHIS, L.L.P.  
ROBIN L. TESKIN  
P.O. BOX 1404  
ALEXANDRIA, VA 22313-1404



\*100829936A\*

UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

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RECORDATION DATE: 07/21/1998

REEL/FRAME: 9442/0149  
NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:  
STICE, STEVEN L.

DOC DATE: 06/01/1998

ASSIGNOR:  
CIBELLI, JOSE

DOC DATE: 06/01/1998

ASSIGNEE:  
MASSACHUSETTS, UNIVERSITY OF, A  
PUBLIC INSTITUTION OF HIGHER  
EDUCATION OF THE COMMONWEALTH OF  
MASSACHUSETTS, AS REPRESENTED BY  
ITS AMHERST CAMPUS  
OFFICE OF VICE CHANCELLOR FOR  
RESEARCH AT AMHERST  
AMHERST, MASSACHUSETTS 01002

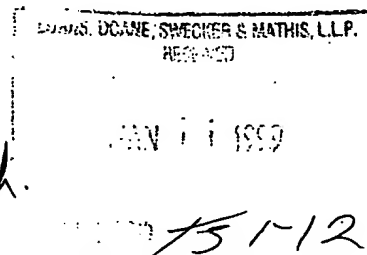
SERIAL NUMBER: 09066652  
PATENT NUMBER:

FILING DATE: 04/27/1998  
ISSUE DATE:

000270-015

ALT

Advanced Cell Tech.



9442/0149 PAGE 2

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ALEXANDRIA, VIRGINIA 22313-1404



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RECORDATION DATE: 07/21/1998

REEL/FRAME: 9442/0193  
NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

ROBL, JAMES A.

DOC DATE: 07/02/1998

ASSIGNEE:

MASSACHUSETTS, UNIVERSITY OF, A  
PUBLIC INSTITUTION OF HIGHER  
EDUCATION OF THE COMMONWEALTH OF  
MASSACHUSETTS, AS REPRESENTED BY  
ITS AMHERST CAMPUS

OFFICE OF VICE CHANCELLOR FOR  
RESEARCH AT AMHERST

~~AMHERST~~, MASSACHUSETTS 01002

AMHERST

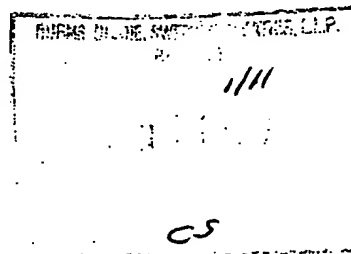
SERIAL NUMBER: 09066652

PATENT NUMBER:

FILING DATE: 04/27/1998

ISSUE DATE:

000270-015  
Adm. Cell  
ACT



09-15-1998

U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office



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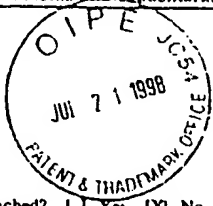
100829936

Attorney's Docket No. 000270-015

To the Honorable Commissioner of Patents and Trademarks. Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Steven L. STICE  
Jose CIBELLI



Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name

Other: \_\_\_\_\_

Execution Date: June 1, 1998

2. Name and address of receiving party(ies):

Name: UNIVERSITY OF MASSACHUSETTS, a  
Public Institution of Higher Education of the  
Commonwealth of Massachusetts, as represented by its  
Amherst Campus

Address: Office of Vice Chancellor For  
Research At Amherst  
Amherst, Massachusetts 01002

Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: \_\_\_\_\_

A. Patent Application No.(s)  
09/066,652

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Robin L. Teskin  
Address: BURNS, DOANE, SWECKER & MATHIS, L.L.P.  
P.O. Box 1404  
Alexandria, Virginia 22313-1404

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41): \$ 40.00

☒ Enclosed

☐ Authorized to be charged to deposit account, if necessary

8. Deposit account number:

02-4800

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9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Robin L. Teskin  
Name of Person Signing

[Signature]  
Signature

July 21, 1998  
Date

07/24/1998 JARTIS 00000023 09066652

Total number of pages including cover sheet, attachments, and document: 3

02 FC:581

40.00 OP

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents and Trademarks  
Box Assignments  
Washington, D.C. 20231

# ASSIGNMENT

(JOINT)

THIS ASSIGNMENT, by STEVEN L. STICE; JOSE CIBELLE, and JAMES M. ROBL, residing at 468 AMHERST ROAD, BELCHERTOWN, MASSACHUSETTS 01007; 166 VILLAGE PARK, AMHERST, MASSACHUSETTS 01002 and 196 OLD ENFIELD, BELCHERTOWN, MASSACHUSETTS 01007 (hereinafter referred to as "the Assignors"), respectively, witnesseth:

WHEREAS, the Assignors have invented certain new and useful improvements in CLONED UNGULATE EMBRYOS AND ANIMALS, USE OF CELLS, TISSUES AND ORGANS THEREOF FOR TRANSPLANTATION THERAPIES INCLUDING PARKINSON'S DISEASE, ☐ which is a provisional application to be filed herewith; ☐ which is a non-provisional application having an oath or declaration executed on even date herewith prior to filing of application; ☒ bearing Application No. 09/066,652, and filed on APRIL 27, 1998; and

WHEREAS, UNIVERSITY OF MASSACHUSETTS, A PUBLIC INSTITUTION OF HIGHER EDUCATION OF THE COMMONWEALTH OF MASSACHUSETTS, AS REPRESENTED BY ITS AMHERST CAMPUS, and having its principal place of business at OFFICE OF VICE CHANCELLOR FOR RESEARCH AT AMHERST, AMHERST, MASSACHUSETTS 01002 (hereinafter referred to as "the Assignee"), is desirous of acquiring the entire right, title, and interest in and to said inventions, the right to file applications on said inventions and the entire right, title and interest in and to any applications, including provisional applications for Letters Patent of the United States or other countries claiming priority to said application, and in and to any Letters Patent or Patents, United States or foreign, to be obtained therefor and thereon.

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and sufficient consideration, the receipt of which is hereby acknowledged, the Assignors have sold, assigned, transferred, and set over, and by these presents do sell, assign, transfer, and set over, unto the Assignee, its successors, legal representatives, and assigns the entire right, title, and interest in and to the above-mentioned inventions, the right to file applications on said inventions and the entire right, title and interest in and to any applications for Letters Patent of the United States or other countries claiming priority to said application, and any and all Letters Patent or Patents of the United States of America and all foreign countries that may be granted therefor and thereon, and in and to any and all applications claiming priority to said applications, divisions, continuations, and continuations-in-part of said applications, and reissues and extensions of said Letters Patent or Patents, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by the Assignee, for its own use and behalf and the use and behalf of its successors, legal representatives, and assigns, to the full end of the term or terms for which Letters Patent or Patents may be granted as fully and entirely as the same would have been held and enjoyed by the Assignors had this sale and assignment not been made;

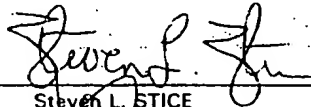
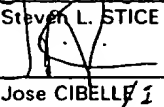
AND for the same consideration, the Assignors hereby covenant and agree to and with the Assignee, its successors, legal representatives, and assigns, that, at the time of execution and delivery of these presents, the Assignors are the sole and lawful owners of the entire right, title, and interest in and to the inventions set forth in said applications and said applications, including provisional applications, above-mentioned, and that the same are unencumbered, and that the



Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth;

AND for the same consideration, the Assignors hereby covenant and agree to and with the Assignee, its successors, legal representatives, and assigns that the Assignors will, whenever counsel of the Assignee, or the counsel of its successors, legal representatives, and assigns, shall advise that any proceeding in connection with said inventions or said applications for Letters Patent or Patents, or any proceeding in connection with Letters Patent or Patents for said inventions in any country, including interference proceedings, is lawful and desirable, or that any application claiming priority to said application, division, continuation, or continuation-in-part of any applications for Letters Patent or Patents, or any reissue or extension of any Letters Patent or Patents to be obtained thereon, is lawful and desirable, sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement, and defense of Letters Patent or Patents for said inventions, without charge to the Assignee, its successors, legal representatives, and assigns, but at the cost and expense of the Assignee, its successors, legal representatives, and assigns;

AND the Assignors hereby request the Commissioner of Patents to issue any and all said Letters Patent of the United States to the Assignee as the Assignee of said inventions, the Letters Patent to be issued for the sole use and behalf of the Assignee, its successors, legal representatives, and assigns.

Date <u>6/1/98</u>	Signature of Assignor	<u></u> Steven L. STICE
Date <u>6/1/98</u>	Signature of Assignor	<u></u> Jose CIBELLE
Date _____	Signature of Assignor	_____ James M. ROBL
Date _____	Signature of Assignor	_____
Date _____	Signature of Assignor	_____
Date _____	Signature of Assignor	_____
Date _____	Signature of Assignor	_____

09-15-1998

U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office

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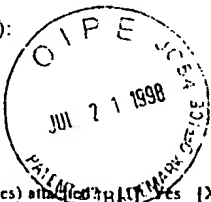
100829937

Attorney's Docket No. 000270-015

To the Honorable Commissioner of Patents and Trademarks. Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

JAMES A. ROBL



Additional name(s) of conveying party(ies) attached? ☒ Yes ☐ No

3. Nature of conveyance:

☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name

Other: \_\_\_\_\_

Execution Date: July 2, 1998

2. Name and address of receiving party(ies):

Name: UNIVERSITY OF MASSACHUSETTS, a  
Public Institution of Higher Education of the  
Commonwealth of Massachusetts, as represented by its  
Amherst Campus

Address: Office of Vice Chancellor For  
Research At Amherst  
Amherst, Massachusetts 01002

Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: \_\_\_\_\_

A. Patent Application No.(s)

09/066,652

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Robin L. Teskin

Address: BURNS, DOANE, SWECKER & MATHIS, L.L.P.  
P.O. Box 1404  
Alexandria, Virginia 22313-1404

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41): \$ 40.00

☒ Enclosed

☐ Authorized to be charged to deposit account, if necessary

8. Deposit account number:

02-4800

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9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Robin L. Teskin  
Name of Person Signing

Robin L. Teskin  
Signature

July 21, 1998  
Date

Total number of pages including cover sheet, attachments, and document: 2

07/24/1998 JARTIS 00000023 09066652 Mail documents to be recorded with required cover sheet information to:

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Commissioner of Patents and Trademarks  
Box Assignments  
Washington, D.C. 20231

## ASSIGNMENT (JOINT)

THIS ASSIGNMENT, by STEVEN L. STICE, JOSE CIBELLE and JAMES M. ROBL, residing at 468 AMHERST ROAD, BELCHERTOWN, MASSACHUSETTS 01007; 166 VILLAGE PARK, AMHERST, MASSACHUSETTS 01002 and 196 OLD ENFIELD, BELCHERTOWN, MASSACHUSETTS 01007 (hereinafter referred to as "the Assignors"), respectively, witnesseth:

WHEREAS, the Assignors have invented certain new and useful improvements in CLONED UNGULATE EMBRYOS AND ANIMALS, USE OF CELLS, TISSUES AND ORGANS THEREOF FOR TRANSPLANTATION THERAPIES INCLUDING PARKINSON'S DISEASE, ☐ which is a provisional application to be filed herewith; ☐ which is a non-provisional application having an oath or declaration executed on even date herewith prior to filing of application; ☒ bearing Application No. 09/066,652, and filed on APRIL 27, 1998; and

WHEREAS, UNIVERSITY OF MASSACHUSETTS, A PUBLIC INSTITUTION OF HIGHER EDUCATION OF THE COMMONWEALTH OF MASSACHUSETTS, AS REPRESENTED BY ITS AMHERST CAMPUS, and having its principal place of business at OFFICE OF VICE CHANCELLOR FOR RESEARCH AT AMHERST, AMHERST, MASSACHUSETTS 01002 (hereinafter referred to as "the Assignee"), is desirous of acquiring the entire right, title, and interest in and to said inventions, the right to file applications on said inventions and the entire right, title and interest in and to any applications, including provisional applications for Letters Patent of the United States or other countries claiming priority to said application, and in and to any Letters Patent or Patents, United States or foreign, to be obtained therefor and thereon.

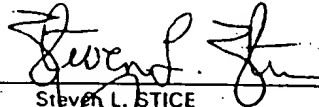
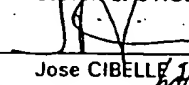
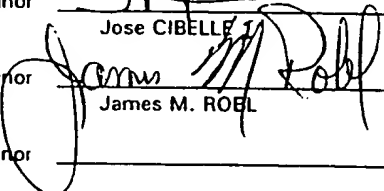
NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and sufficient consideration, the receipt of which is hereby acknowledged, the Assignors have sold, assigned, transferred, and set over, and by these presents do sell, assign, transfer, and set over, unto the Assignee, its successors, legal representatives, and assigns the entire right, title, and interest in and to the above-mentioned inventions, the right to file applications on said inventions and the entire right, title and interest in and to any applications for Letters Patent of the United States or other countries claiming priority to said application, and any and all Letters Patent or Patents of the United States of America and all foreign countries that may be granted therefor and thereon, and in and to any and all applications claiming priority to said applications, divisions, continuations, and continuations-in-part of said applications, and reissues and extensions of said Letters Patent or Patents, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by the Assignee, for its own use and behalf and the use and behalf of its successors, legal representatives, and assigns, to the full end of the term or terms for which Letters Patent or Patents may be granted as fully and entirely as the same would have been held and enjoyed by the Assignors had this sale and assignment not been made;

AND for the same consideration, the Assignors hereby covenant and agree to and with the Assignee, its successors, legal representatives, and assigns, that, at the time of execution and delivery of these presents, the Assignors are the sole and lawful owners of the entire right, title, and interest in and to the inventions set forth in said applications and said applications, including provisional applications, above-mentioned, and that the same are unencumbered, and that the

Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth;

AND for the same consideration, the Assignors hereby covenant and agree to and with the Assignee, its successors, legal representatives, and assigns that the Assignors will, whenever counsel of the Assignee, or the counsel of its successors, legal representatives, and assigns, shall advise that any proceeding in connection with said inventions or said applications for Letters Patent or Patents, or any proceeding in connection with Letters Patent or Patents for said inventions in any country, including interference proceedings, is lawful and desirable, or that any application claiming priority to said application, division, continuation, or continuation-in-part of any applications for Letters Patent or Patents, or any reissue or extension of any Letters Patent or Patents to be obtained thereon, is lawful and desirable, sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement, and defense of Letters Patent or Patents for said inventions, without charge to the Assignee, its successors, legal representatives, and assigns, but at the cost and expense of the Assignee, its successors, legal representatives, and assigns;

AND the Assignors hereby request the Commissioner of Patents to issue any and all said Letters Patent of the United States to the Assignee as the Assignee of said inventions, the Letters Patent to be issued for the sole use and behalf of the Assignee, its successors, legal representatives, and assigns.

Date <u>6/1/98</u>	Signature of Assignor	 Steven L. STICE
Date <u>6/1/98</u>	Signature of Assignor	 Jose CIBELLE
Date <u>7-2-98</u>	Signature of Assignor	 James M. ROEL
Date _____	Signature of Assignor	_____
Date _____	Signature of Assignor	_____
Date _____	Signature of Assignor	_____
Date _____	Signature of Assignor	_____



UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office  
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OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231

OCTOBER 01, 1999

PTAS

BURNS, DOANE, SWECKER & MATHIS, L.L.P.  
ROBIN L. TESKIN  
P.O. BOX 1404  
ALEXANDRIA, VIRGINIA 22313-1404



\*101137675A\*

## CORRECTED NOTICE

### UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

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RECORDATION DATE: 07/21/1998

REEL/FRAME: 009442/0193  
NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

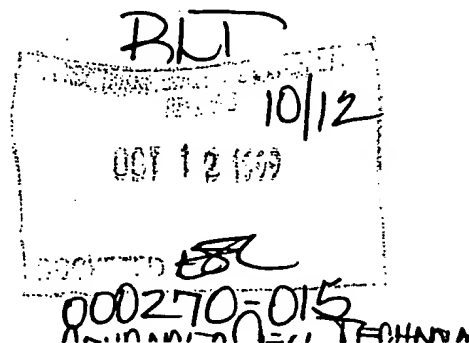
ASSIGNOR:  
ROBL, JAMES A.

DOC DATE: 07/02/1998

ASSIGNEE:  
MASSACHUSETTS, UNIVERSITY OF, A  
PUBLIC INSTITUTION OF HIGHER  
EDUCATION OF THE COMMONWEALTH OF  
MASSACHUSETTS, AS REPRESENTED BY  
ITS AMHERST CAMPUS  
OFFICE OF VICE CHANCELLOR FOR  
RESEARCH AT AMHERST  
AMHERST, MASSACHUSETTS 01002

SERIAL NUMBER: 09066652  
PATENT NUMBER:

FILING DATE: 04/27/1998  
ISSUE DATE:



009442/0193 PAGE 2

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